

INTERNATIONAL SEARCH REPORT

PCT/GB2005/000703

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 E01B23/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E01B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 1 340 992 A (TORYOWSKI JOSA) 25 May 1920 (1920-05-25) page 1, line 46 - page 2, line 105; figures 1,2	1-6, 41
A		7, 13, 17, 26, 30-34, 37, 38, 42
P, X	WO 2004/016853 A (SCOTT-TRACK LIMITED; MCCALLUM, DONALD) 26 February 2004 (2004-02-26) cited in the application abstract; figures 1-24 claims 1-23, 28, 34-37	1-23, 32-37, 41, 42
P, A		26, 27, 30, 31, 38
	----- -/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

24 August 2005

Date of mailing of the international search report

02.09.2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Fernandez, E

INTERNATIONAL SEARCH REPORT

PCT/GB2005/000703

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 26 49 830 A1 (SOCIETE DES ACIERIES DE PARIS ET D'OUTREAU S.A) 29 September 1977 (1977-09-29) pages 7-8; claims 1,4,5; figures 1,2 -----	1,2,5,7, 8,10,11, 26,30, 32,33, 38,41
A	DE 165 316 C (MILAN MARION FITZGERALD) 10 December 1904 (1904-12-10) claim 1; figure 1 -----	1,3,4, 26,38, 41,42
X	DE 15 34 038 A1 (GREBE, KONRAD) 23 January 1969 (1969-01-23) claim 1; figures 1-3 -----	1,2,5,7, 8,13,41
A		3,4,6, 10,26, 30,32, 33,38,42
X	US 1 480 739 A (BAGBY ROBERT T) 15 January 1924 (1924-01-15) figures 1-4 -----	1-3,7,8, 13,41
A		4-6,10, 11,17, 26,30, 32,35, 38,42
X	US 1 341 354 A (BOOTH JAMES A) 25 May 1920 (1920-05-25) figures 1-7 -----	1-3,5,7, 8,32,41
A		4,6,26, 30,35, 38,42
A	US 1 493 093 A (BALLOU WILLIAM RILEY) 6 May 1924 (1924-05-06) figures 1-10 -----	1-42

INTERNATIONAL SEARCH REPORT

PCT/GB2005/000703

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-25, 41

Claim 1 concerns a turnout for a railway track, comprising

- a) a raised track surface which
 - a.1) is adapted to provide a path along which the wheels of a train can travel from one railway track to another,
 - a.2) comprises first and second portions and
 - a.3) is arranged such that the wheels of the train are first raised by the first portion to a first rail crossing height and then lowered by the second portion to a height at a location between the pair of spaced apart rails of the railway track.

Claims 2-25 are referred back to claim 1.

Claim 41 concerns a method of transferring a train from one railway track to a second railway track.

2. claims: 26-37

Claim 26 concerns a turnout for a railway track, comprising

- a) a raised track surface which
 - a.1) is adapted to provide a path along which the wheels of a train can travel from one railway track to another,
 - a.2) comprises a crossing rail portion
 - a.2.1) adapted to cross over one of the spaced apart rails,
 - a.2.2) being coupled to an upper supporting member which, in use, rests upon and is supported by at least one lower supporting member,
 - a.2.3) wherein the upper and at least one lower supporting members are coupled to one another by a moveable mechanism.

Claims 27-37 are referred back to claim 26.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

3. claims: 38-40

Claim 38 concerns a turnout for a railway track, comprising

- a) a raised track surface which
 - a.1) is adapted to provide a path along which the wheels of a train can travel from one railway track to another,
 - a.2) comprises a ramp member to permit a wheel of a rail to enter the raised track surface, the ramp member comprising
 - a.2.1) a fixing mechanism to releasably secure the ramp member to one of the spaced apart rails;
 - a.2.2) an upper ramp surface which in use provides a rail surface for a tread of the wheel to traverse; and
 - a.2.3) a lead-in-portion which is arranged at one side of the said one of the spaced apart rails, wherein the lead-in-portion comprises an upper rail surface which, in use, is inclined at an angle to the horizontal axis and which provides a rail surface for a portion of the tread to traverse.

Claims 39 and 40 are referred back to claim 38.

4. claim: 42

Claim 42 concerns an apparatus for facilitating Single Line Working on a second railway track to clear a first railway track for maintenance or other purposes, the apparatus comprising

- a) a first non-intrusive crossover and
 - b) a second non-intrusive crossover being spaced apart from the first non-intrusive crossover in the direction of the longitudinal axis of the pair of railway tracks,
 - c) wherein the first and the second non-intrusive crossovers
 - c.1) provide an undulating path along which the wheels of a train can travel from the first to the second railway track and from the second to the first railway track,
 - c.2) comprise removable portions and fixed portions,
 - c.3) wherein the undulating path is adapted such that said fixed portions do not project above a specified vertical height above the first or second railway tracks.
-

INTERNATIONAL SEARCH REPORT

PCT/GB2005/000703

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 1340992	A	25-05-1920	NONE	
WO 2004016853	A	26-02-2004	AU 2003255786 A1 CA 2495283 A1 EP 1552063 A1 WO 2004016853 A1	03-03-2004 26-02-2004 13-07-2005 26-02-2004
DE 2649830	A1	29-09-1977	NONE	
DE 165316	C		NONE	
DE 1534038	A1	23-01-1969	NONE	
US 1480739	A	15-01-1924	NONE	
US 1341354	A	25-05-1920	NONE	
US 1493093	A	06-05-1924	NONE	